

**PLANAR PARTICLE/DROPLET SIZE  
MEASUREMENT TECHNIQUE USING DIGITAL  
PARTICLE IMAGE VELOCIMETRY IMAGE DATA**

**Abstract of the Disclosure**

A method for determining a mass flux of an entrained phase in a planar two-phase flow records images of particles in the two-phase flow. Respective sizes of the particles (the entrained phase) are determined as a function of a separation between spots identified on the particle images. Respective velocities of the particles are determined. The mass flux of the entrained phase is determined as a function of the size and velocity of the particles.